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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/687,753

10/20/2003

Chikashi Okamoto

ASA-1003-02

9276

24956

7590

12/08/2005

MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.  
1800 DIAGONAL ROAD  
SUITE 370  
ALEXANDRIA, VA 22314

EXAMINER

VIGUSHIN, JOHN B

ART UNIT

PAPER NUMBER

2841

DATE MAILED: 12/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/687,753	OKAMOTO ET AL. <i>AK</i>	
	Examiner	Art Unit	
	John B. Vigushin	2841	

**– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 20 January 2004. 1.5
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final. 2.1
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 15-20 is/are pending in the application. 1.5
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 1.0
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed. 1.5
- 6) ☒ Claim(s) 15 and 18 is/are rejected. 1.5
- 7) ☒ Claim(s) 16, 17, 19 and 20 is/are objected to. 1.5
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. 1.5

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner. 1.5
- 10) ☒ The drawing(s) filed on 20 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. 1.5
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 1.5
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 09/856,758.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>1003/20 Oct 2003</u>  | 6) <input type="checkbox"/> Other: _____                                    |

### DETAILED ACTION

1. The present Office Action is responsive to Applicant's Preliminary Amendment of January 20, 2004, wherein Claims 1-14 were cancelled and new Claims 15-20 were added. Accordingly, Claims 15-20 are now pending in the instant Application.

### *Claim Objections*

2. Claims 15 and 18 are objected to under 37 CFR § 1.75(a) because of the following informalities that render the claim language indefinite:

As to method Claim 15, line 6, **--one--** should be inserted after "any" because the line configurations that follow "any of" are individually distinct embodiments, as similarly alternatively stated in corresponding product Claim 18. Corresponding product Claim 18 makes clear that each recited line configuration is a separate embodiment by using the alternative claim language "at a position which is not on any one of..." (Claim 18, lines 4-5, bold emphasis added). The same reasoning and language should apply to method Claim 15, which is the method of making the product of Claim 18. Hence, the Examiner's recommended requirement to insert **--one--** after "any" in line 6 of method Claim 15.

As to Claim 18, line 9, "the short sides" have no antecedent basis. The defect is easily cured by changing "short" to **--narrow--**.

3. Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 15 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Tuttle et al. (US 5,779,839; made of record in Applicant's IDS filed October 20, 2003).

As to Claim 15, Tuttle et al. discloses, in Fig. 3: a method of mounting an electronic circuit chip 32 together with another planar electric element (dipole antenna strips 34, 36) on a foldable rectangular sheet (foldable at crease line 44) having wide sides and narrow sides which are not wider than the wide sides; characterized in that the electronic circuit chip 32 is mounted on the foldable rectangular sheet at a position which is not on a crease line 44 passing through one-half the length of the wide sides and being parallel with the narrow sides (col.8: 9-15). [Examiner's note: the Examiner interprets "at a position which is not on any of...." to read as, *at a position which is not on any one of...*, as explained in the Examiner's objection of Claim 15 set forth above].

As to Claim 18, Tuttle et al. discloses, in Fig. 3: a foldable rectangular sheet (foldable at crease line 44) on which an electronic chip 32 is mounted, having wide sides and narrow sides not wider than the wide sides, characterized in that the electronic circuit chip 32 is located at a position which is not on a crease line 44 passing through one-half of the length of the wide sides and being parallel with the narrow sides (col.8: 9-15).

***Allowable Subject Matter***

6. Claims 16, 17, 19 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

In Claims 16 and 19, patentability resides in *a rod-like antenna mounted on the sheet so as to extend in a direction "coincident" (i.e., parallel) with the direction of the crease line*, in combination with the other limitations of Claims 16 and 19, respectively. [The Examiner notes that Tuttle et al. (US 5,779,839) discloses, in Fig. 3, a rod-like antenna—dipole antenna strips 34, 36—which extends in a direction perpendicular to the crease line 44].

In Claims 17 and 20, patentability resides in *a rod-like antenna mounted on the sheet so as to cross at least one of the lines*, in combination with the other limitations of Claims 17 and 20, respectively. [The Examiner notes that Tuttle et al. (US 5,779,839) discloses, in Fig. 3, a rod-like antenna—dipole antenna strips 34, 36—mounted on the sheet so as to NOT cross the crease line 44].

7. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Wales (US 2,911,605) discloses an inductor coil 15 comprising coil pairs L3,4, L6,7 and L9,10 on different sections of a foldable sheet joined at a folding crease line and connected by a continuous lead 18 between the coil pairs, said lead 18 crossing the folding crease line.

b) Ueda (US 4,849,617) discloses a chip 1 mounted on a foldable sheet (card) 2 at a position which is not on the crease line 3 (Figs. 1a,b and 2a,b).

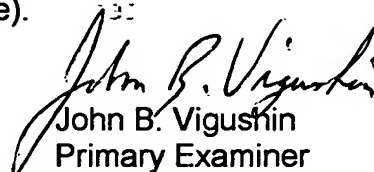
c) Kimura (US 5,313,416) discloses semiconductor chips 10 mounted on different sections of a foldable sheet 7 such that the semiconductor chips 10 are not located on any of folding crease lines 71, 72 and 73 that divide the sheet 7 at the  $\frac{1}{4}$  and  $\frac{1}{2}$  positions along the sheet 7.

d) Blanc et al. (US 6,437,985 B1) discloses a chip 4 and antenna 2 mounted on a foldable sheet (card) such that chip 4 and antenna 2 are not located on the folding crease (Figs. 9 and 12; col.6: 46-65; col.9: 40-45).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Vigushin whose telephone number is 571-272-1936. The examiner can normally be reached on 8:30AM-5:00PM Mo-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
John B. Vigushin  
Primary Examiner  
Art Unit 2841

jbv  
December 05, 2005